

File 9:Business & Industry(R) Jul/1994-2004/Mar 03  
(c) 2004 Resp. DB Svcs.  
File 16:Gale Group PROMT(R) 1990-2004/Mar 04  
(c) 2004 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2004/Mar 04  
(c) 2004 The Gale group  
File 148:Gale Group Trade & Industry DB 1976-2004/Mar 04  
(c)2004 The Gale Group  
File 149:TGG Health&Wellness DB(SM) 1976-2004/Feb W4  
(c) 2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2004/Mar 04  
(c) 2004 The Gale Group  
File 570:Gale Group MARS(R) 1984-2004/Mar 04  
(c) 2004 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Mar 03  
(c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Mar 04  
(c) 2004 The Gale Group  
File 649:Gale Group Newswire ASAP(TM) 2004/Mar 03  
(c) 2004 The Gale Group

Set	Items	Description
S1	1153927	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICR-OCHIP? ?
S2	25263	S1(5N) (SIGNAL?? ? OR SIGNAL???? ?)
S3	2609	S1(5N) (PULSE? ? OR PULS???? ?)
S4	17938	(POINTING OR CURS??? ?) (1W) (DEVICE? ? OR UNIT? ? OR MECHAN-ISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?) (1W) INDICAT?R? ?
S5	6978316	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SO-FTWARE? ? OR SOFT()WARE? ?
S6	8572768	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPU-T?
S7	38071	PROCESSING(1W) (DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	533785	S4:S7(3N) (OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	559778	S4:S7(3N) (ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ? OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT-?)
S10	180895	S4:S7(3N) (DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POS-ITION??? ?)
S11	758	S4:S7(3N) MANEUV?
S12	910	S2:S3(S) S8:S11
S13	32	S12(S) (THOUGHT? ? OR THINK??? ? OR MUSCLE? ? OR MUSCULAR? -OR MENTAL?? ?)
S14	906	S12(S) S5:S6
S15	3	S12(S) (MYOELECTR? OR NEUROTROP? OR NEURAL()TROP? OR NEURAL-TROP? OR ELECTROMYOGRA? OR ELECTRO() (MYOGRAM? OR MYOGRAPH?) OR MYO()ELECTR?)
S16	2482658	S4:S7(5N) (DISPLAY? OR VIEW? OR VISUAL? OR VIDEO? ? OR IMAG-E? OR WINDOW? ? OR MONITOR? OR ONSCREEN? OR SCREEN? ? OR CRT -OR CRTS)
S17	20825	S4:S7(5N) (LCD OR LCDS OR VDT OR VDTs OR VDU OR VDUS)
S18	622	S2:S3(25N) S8:S11
S19	111	S18(S) S16:S17
S20	143	S13 OR S15 OR S19
S21	7	S20/2002:2004
S22	136	S20 NOT S21

09/821,945

3/4/04

File 696:DIALOG Telecom. Newsletters 1995-2004/Mar 03  
(c) 2004 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2004/Mar 04  
(c) 2004 ProQuest Info&Learning  
File 98:General Sci Abs/Full-Text 1984-2004/Jan  
(c) 2004 The HW Wilson Co.  
File 484:Periodical Abs Plustext 1986-2004/Feb W5  
(c) 2004 ProQuest  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2004/Mar 03  
(c) 2004 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2004/Mar 04  
(c) 2004 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Mar 04  
(c) 2004 Business Wire.  
File 369:New Scientist 1994-2004/Feb W4  
(c) 2004 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2004/Mar 04  
(c) 2004 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2004/Mar 04  
(c) 2004 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2004/Mar 03  
(c) 2004 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2004/Feb W4  
(c) 2004 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2004/Feb W4  
(c) 2004 IDG Communications  
File 444:New England Journal of Med. 1985-2004/Mar W1  
(c) 2004 Mass. Med. Soc.

Set	Items	Description
S1	823082	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICR- OCHIP? ?
S2	11317	S1(5N) (SIGNAL?? ? OR SIGNAL???? ?)
S3	1275	S1(5N) (PULSE? ? OR PULS???? ?)
S4	7348	(POINTING OR CURS??? ?) (1W) (DEVICE? ? OR UNIT? ? OR MECHAN- ISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?) (1W) INDICAT?R? ?
S5	3906110	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SO- FTWARE? ? OR SOFT()WARE? ?
S6	5096481	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPU- T?
S7	21158	PROCESSING(1W) (DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	274240	S4:S7(3N) (OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	264506	S4:S7(3N) (ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ? OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT- ?)
S10	90713	S4:S7(3N) (DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POS- ITION???? ?)
S11	492	S4:S7(3N) MANEUV?
S12	339	S2:S3(S) S8:S11
S13	17	S12(S) (THOUGHT? ? OR THINK??? ? OR MUSCLE? ? OR MUSCULAR? - OR MENTAL?? ?)
S14	1	S12(S) (MYOELECTR? OR NEUROTROP? OR NEURAL()TROP? OR NEURAL-

TROP? OR ELECTROMYOGRAM? OR ELECTROMYOGRAPH? OR ELECTRO() (MYO-GRAM? OR MYOGRAPH?) OR MYO()ELECTR?)

S15 1592299 S4:S7(5N) (DISPLAY? OR VIEW? OR VISUAL? OR VIDEO? ? OR IMAG-E? ? OR WINDOW? ? OR MONITOR? OR ONSCREEN? OR SCREEN? ? OR CRT OR CRTS?)

S16 9756 S4:S7(5N) (LCD OR LCDS OR VDT OR VDTs OR VDU OR VDUS)

S17 52 S12(S)S15:S16

S18 67 S13:S14 OR S17

S19 13 S18/2002:2004

S20 54 S18 NOT S19

S21 46 RD (unique items)

21/3,K/2 (Item 1 from file: 15)  
 DIALOG(R)File 15:ABI/Inform(R)  
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01787493 04-38484

**What the future holds: Three themes that affect America and the world**  
 Van Dusen Wishard, Wm  
 Vital Speeches of the Day v65n10 PP: 313-316 Mar 1, 1999  
 ISSN: 0042-742X JRNl CODE: VSP  
 WORD COUNT: 3473

...TEXT: creating such incongruities as "Catholic Buddhists."

A totally paralyzed stroke victim has learned to use **thoughts** to **control** a **computer** cursor. His brain neurons are attached to electrodes implanted in his brain. When the patient **thinks**, the **electrodes** pick up the **signals** emitted from firing neurons. The signals are amplified and transmitted to the computer, which translates...

21/3,K/3 (Item 2 from file: 15)  
 DIALOG(R)File 15:ABI/Inform(R)  
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01555503 02-06492

**Company to market remote control system operated by brain waves**  
 Harlow, Jarrod  
 Marketing News v32n2 PP: 22 Jan 19, 1998  
 ISSN: 0025-3790 JRNl CODE: MNW  
 WORD COUNT: 664

...TEXT: exercising the will means saying something like "Yes!" or "On!" inside your head.

Any strong **mental** affirmation sends out a brain **signal** that the **electrodes** apparently intercept and feed to the **computer**. The **computer** then **activates** the appropriate appliance.

Nerve cells in the brain are constantly emitting a variety of electrical...

21/3,K/8 (Item 1 from file: 98)  
 DIALOG(R)File 98:General Sci Abs/Full-Text  
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02772354 H.W. WILSON RECORD NUMBER: BGSI94022354

**Brain powered: in the new world of brain-actuated technology, you'll fly a plane, play a video game, or maneuver a wheelchair just by thinking about**

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Jan  
(c)2004 Info.Sources Inc  
File 2:INSPEC 1969-2004/Feb W4  
(c) 2004 Institution of Electrical Engineers  
File 6:NTIS 1964-2004/Feb W5  
(c) 2004 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1970-2004/Feb W4  
(c) 2004 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Feb W5  
(c) 2004 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2004/Feb  
(c) 2004 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2004/Feb W5  
(c) 2004 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2004/Feb W4  
(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/Feb W3  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jan  
(c) 2004 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Mar 04  
(c) 2004 The Gale Group  
File 144:Pascal 1973-2004/Feb W4  
(c) 2004 INIST/CNRS  
File 202:Info. Sci. & Tech. Abs. 1966-2004/Feb 20  
(c) 2004 EBSCO Publishing  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 266:FEDRIP 2004/Jan  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 483:Newspaper Abs Daily 1986-2004/Mar 03  
(c) 2004 ProQuest Info&Learning  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 5:Biosis Previews(R) 1969-2004/Feb W5  
(c) 2004 BIOSIS  
File 73:EMBASE 1974-2004/Feb W5  
(c) 2004 Elsevier Science B.V.

Set	Items	Description
S1	1204292	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICR- OCHIP? ?
S2	33788	S1(5N) (SIGNAL?? ? OR SIGNAL???? ?)
S3	11968	S1(5N) (PULSE? ? OR PULS???? ?)
S4	5023	(POINTING OR CURS??? ?) (1W) (DEVICE? ? OR UNIT? ? OR MECHAN- ISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?) (1W) INDICAT?R? ?
S5	3019060	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SO- FTWARE? ? OR SOFT()WARE? ?
S6	5734272	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPU- T?
S7	27732	PROCESSING(1W) (DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	145281	S4:S7(3N) (OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	534817	S4:S7(3N) (ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ?

OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT-  
?)

S10 50599 S4:S7(3N) (DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POS-  
ITION??? ?)

S11 958 S4:S7(3N)MANEUV?

S12 553 S2:S3(25N)S8:S11

S13 17 S12 AND (THOUGHT? ? OR THINK??? ? OR MUSCLE? ? OR MUSCULAR?  
OR MENTAL?? ?)

S14 13 S12 AND (MYOELECTR? OR NEUROTROP? OR NEURAL()TROP? OR NEUR-  
ALTROP? OR ELECTROMYOGRA? OR ELECTRO() (MYOGRAM? OR MYOGRAPH?)  
OR MYO()ELECTR?)

S15 774529 S4:S7(5N) (DISPLAY? OR VIEW? OR VISUAL? OR VIDEO? ? OR IMAG-  
E? OR WINDOW? ? OR MONITOR? OR ONSCREEN? OR SCREEN? ? OR CRT -  
OR CRTS)

S16 3484 S4:S7(5N) (LCD OR LCDS OR VDT OR VDTs OR VDU OR VDUS)

S17 54 S12 AND S15:S15

S18 73 S13:S14 OR S17

S19 5 S18/2002:2004

S20 68 S18 NOT S19

S21 55 RD (unique items)

21/7/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6396130 INSPEC Abstract Number: A1999-23-8770J-016, B1999-12-7520E-015,  
C1999-12-3385C-002

**Title: Fuzzy logic expert system for automatic tuning of myoelectric  
prostheses**

Author(s): Bonivento, C.; Davalli, A.; Fantuzzi, C.; Terenzi, S.

Author Affiliation: Dipt. di Elettronica Inf. e Sistemistica, Bologna  
Univ., Italy

Conference Title: Proceedings of the ASME Dynamic Systems and Control  
Division p.425-31

Editor(s): Rizzoni, G.

Publisher: ASME, New York, NY, USA

Publication Date: 1997 Country of Publication: USA x+766 pp.

ISBN: 0 7918 1824 1 Material Identity Number: XX-1999-00147

Conference Title: Proceedings of ASME Dynamic Systems and Control  
Division - 1997

Conference Sponsor: ASME

Conference Date: 16-21 Nov. 1997 Conference Location: Dallas, TX, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The paper presents a software package for automatic tuning of  
control parameters of **myoelectric** prosthesis. The prosthesis system is  
the INAIL artificial arm **controlled** by a **microprocessor** using  
**myoelectric** **signals** acquired from skin-surface **electrodes** placed on  
the patient **muscle** stump. Usually, qualified staff are necessary for the  
control parameter set-up and subsequent recurrent adjustments, and  
therefore patients are forced to come back frequently to prosthesis factory  
laboratories. The proposed software interacts with unskilled patients and  
automatically set up the control parameters of the prosthesis using  
qualified staff knowledge stored in a fuzzy logic expert system (FLES). In  
this paper the software package is presented and some preliminary results  
from its application are discussed. (15 Refs)

Subfile: A B C

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21/7/2 (Item 2 from file: 2)

File 347:JAPIO Oct 1976-2003/Oct(Updated 040202)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200415

(c) 2004 Thomson Derwent

Set	Items	Description
S1	1108050	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICROCHIP? ?
S2	37658	S1(5N) (SIGNAL?? ? OR SIGNAL???? ?)
S3	11530	S1(5N) (PULSE? ? OR PULS???? ?)
S4	10584	(POINTING OR CURS??? ?) (1W) (DEVICE? ? OR UNIT? ? OR MECHANISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?) (1W) INDICAT?R? ?
S5	350737	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SOFTWARE? ? OR SOFT()WARE? ?
S6	1601347	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPUT?
S7	161123	PROCESSING(1W) (DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	73347	S4:S7(3N) (OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	215002	S4:S7(3N) (ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ? OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT-?)
S10	36361	S4:S7(3N) (DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POSITION??? ?)
S11	31	S4:S7(3N) MANEUV?
S12	1225	S2:S3 AND S8:S11
S13	25	S12 AND (THOUGHT? ? OR THINK??? ? OR MUSCLE? ? OR MUSCULAR? OR MENTAL?? ? OR MIND? ?)
S14	6	S12 AND (MYOELECTR? OR NEUROTROP? OR NEURAL()TROP? OR NEURALTROP? OR ELECTROMYOGRAM? OR ELECTROMYOGRAPH? OR ELECTRO() (MYOGRAM? OR MYOGRAPH?) OR MYO()ELECTR? OR EMG)
S15	459220	S4:S7(5N) (DISPLAY? OR VIEW? OR VISUAL? OR VIDEO? ? OR IMAGE? ? OR WINDOW? ? OR MONITOR? OR ONSCREEN? OR SCREEN? ? OR CRT OR CRTS?)
S16	5254	S4:S7(5N) (LCD OR LCDS OR VDT OR VDTS OR VDU OR VDUS OR VIEWSCREEN? OR VIEWPORT? ?)
S17	226	S12 AND S15:S16
S18	55356	IC='G09G-005'
S19	2210	MC='S05-K'
S20	6502	MC='T01-J12B'
S21	2499	MC='T01-J12D'
S22	8113	MC='T01-M06A1'
S23	5690	MC='T01-C02'
S24	5115	MC='T04-H03'
S25	19	S12 AND S18
S26	1	S19 AND S1 AND (S18 OR S24)
S27	0	S19 AND S23 AND S1
S28	15	S19 AND (S1 OR BIOCHIP? ?) AND S4:S7
S29	14	S12 AND S19:S24
S30	0	S19 AND BIOCHIP? ? AND (S18 OR S24)
S31	0	S19 AND S23 AND BIOCHIP? ?
S32	77	S19 AND S20:S24
S33	1	S32 AND (S1 OR BIOCHIP? ?)
S34	1	S19 AND S18 AND (S1 OR BIOCHIP? ?)
S35	70	S13:S14 OR S25:S29 OR S33:S34
S36	70	IDPAT (sorted in duplicate/non-duplicate order)
S37	70	IDPAT (primary/non-duplicate records only)

File 155:MEDLINE(R) 1966-2004/Feb W5  
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Set	Items	Description
S1	75842	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICR- OCHIP? ?
S2	931	S1(5N)(SIGNAL?? ? OR SIGNAL???? ?)
S3	805	S1(5N)(PULSE? ? OR PULS???? ?)
S4	79	(POINTING OR CURS??? ?)(1W)(DEVICE? ? OR UNIT? ? OR MECHAN- ISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?)(1W)INDICAT?R? ?
S5	602363	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SO- FTWARE? ? OR SOFT()WARE? ?
S6	245985	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPU- T?
S7	577	PROCESSING(1W)(DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	1811	S4:S7(3N)(OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	535357	S4:S7(3N)(ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ? OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT- ?)
S10	1790	S4:S7(3N)(DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POS- ITION??? ?)
S11	43	S4:S7(3N)MANEUV?
S12	16156	DC='E7.296.' (ELECTRODES)
S13	9563	DC='E7.296.319.' (ELECTRODES, IMPLANTED)
S14	8775	DC='E7.296.500.' (MICROELECTRODES)
S15	16156	DC='H1.671.252.402.' (ELECTRODES)
S16	1491	(S1 OR S12:S15) AND S8:S11
S17	42	S16 AND S2:S3
S18	5	S17/2002:2004
S19	37	S17 NOT S18
S20	37	RD (unique items)

20/7/3

DIALOG(R)File 155:MEDLINE(R)  
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14005260 PMID: 9704313

**Automatic tuning of myoelectric prostheses.**

Bonivento C; Davalli A; Fantuzzi C; Sacchetti R; Terenzi S  
University of Bologna, Italy. cbonivento@deis.unibo.it

Journal of rehabilitation research and development (UNITED STATES) Jul  
1998, 35 (3) p294-304, ISSN 0748-7711 Journal Code: 8410047

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

This paper is concerned with the development of a software package for the automatic tuning of myoelectric prostheses. The package core consists of Fuzzy Logic Expert Systems (FLES) that embody skilled operator heuristics in the tuning of prosthesis control parameters. The prosthesis system is an artificial arm-hand system developed at the National Institute of Accidents at Work (INAIL) laboratories. The prosthesis is powered by an electric motor that is **controlled** by a **microprocessor** using myoelectric **signals** acquired from skin-surface **electrodes** placed on a muscle in the residual limb of the subject. The **software** package, **Microprocessor Controlled Arm (MCA) Auto Tuning**, is a tool for aiding both INAIL expert operators and unskilled persons in the controller parameter tuning procedure. Prosthesis control parameter setup and subsequent recurrent

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L2	1	1 and (brain chip circuit electrode interface gui thought encephal\$8 biofeedback myoelectric\$6 (electro adj3 (encephal\$8 myographic\$2)) neorotropic electromyographic\$2 graphic\$2 drawing design\$3)	USPAT	2004/03/07 12:32			0
2	BRS	L3	1	2 and (brows\$3 navigat\$3 surf\$3 travers\$3)	USPAT	2004/03/07 12:22			0
3	BRS	L4	31	brain near6 chip	USPAT	2004/03/07 12:33			0
4	BRS	L5	113	brain adj6 interface	USPAT	2004/03/07 12:22			0
5	BRS	L6	405	brain same chip	USPAT	2004/03/07 12:22			0
6	BRS	L7	7	5 and 6	USPAT	2004/03/07 12:22			0
7	BRS	L8	7	7 and (brows\$3 navigat\$3 surf\$3 travers\$3)	USPAT	2004/03/07 12:22			0
8	BRS	L10	28	5 and (brows\$3 navigat\$3 surf surfing travers\$3)	USPAT	2004/03/07 12:33			0
9	BRS	L11	75	6 and (brows\$3 navigat\$3 surf surfing travers\$3)	USPAT	2004/03/07 12:24			0
10	BRS	L12	3	chip and circuit and electrode and (interface gui) and (thought mind) and (brain encephal\$8) and (myoelectric\$6 (electro adj3 (encephal\$8 myographic\$2)) neorotropic electromyographic\$2)	USPAT	2004/03/07 12:26			0
11	BRS	L13	0	12 and (brows\$3 navigat\$3 surf surfing travers\$3)	USPAT	2004/03/07 12:26			0
12	IS&R	L14	3380	((345/156,157,700,764,856) or (382/155,156,157)).CCLS.	USPAT	2004/03/07 12:32			0
13	BRS	L15	3344	14 and (brain chip circuit electrode interface gui thought encephal\$8 biofeedback myoelectric\$6 (electro adj3 (encephal\$8 myographic\$2)) neorotropic electromyographic\$2 graphic\$2 drawing design\$3)	USPAT	2004/03/07 13:44			0
14	BRS	L16	870	15 and (brows\$3 navigat\$3 surf surfing travers\$3)	USPAT	2004/03/07 12:33			0
15	BRS	L17	3	16 and (brain near10 (chip circuit))	USPAT	2004/03/07 12:34			0
16	BRS	L18	0	16 and (brain near10 (interface gui))	USPAT	2004/03/07 12:34			0
17	BRS	L9	3	7 and (brows\$3 navigat\$3 surf surfing travers\$3)	USPAT	2004/03/07 13:23			0
18	BRS	L19	4	8 not 9	USPAT	2004/03/07 13:34			0
19	BRS	L20	31	4 not 8 not 9	USPAT	2004/03/07 13:43			0
20	BRS	L21	106	5 not 4 not 8 not 9	USPAT	2004/03/07 13:54			0
21	BRS	L22	3	21 and (myoelectric\$6 (electro adj3 (encephal\$8 myographic\$2)) neorotropic electromyographic\$2)	USPAT	2004/03/07 13:44			0
22	BRS	L25	2	12 not 5 not 4 not 8 not 9	USPAT	2004/03/07 13:55			0
23	BRS	L26	3	17 not 12 not 5 not 4 not 8 not 9	USPAT	2004/03/07 13:56			0
24	BRS	L24	69	11 not 5 not 4 not 8 not 9	USPAT	2004/03/07 14:01			0

09/821,945

3/4/04



File 348:EUROPEAN PATENTS 1978-2004/Feb W04

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File 349:PCT FULLTEXT 1979-2002/UB=20040226,UT=20040219

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	251309	ELECTRODE? ? OR MICROELECTRODE? ? OR CHIP OR CHIPS OR MICR- OCHIP? ?
S2	28650	S1(5N)(SIGNAL?? ? OR SIGNAL???? ?)
S3	8154	S1(5N)(PULSE? ? OR PULS???? ?)
S4	13614	(POINTING OR CURS??? ?)(1W)(DEVICE? ? OR UNIT? ? OR MECHAN- ISM? ? OR APPARATUS? OR APP?? ?) OR (POSITION? ? OR LOCATION? ?)(1W)INDICAT?R? ?
S5	279784	PC OR PCS OR PCU OR PCUS OR CPU OR CPUS OR COMPUTING OR SO- FTWARE? ? OR SOFT()WARE? ?
S6	451596	MICROBROWSER? ? OR BROWSER? ? OR WINDOW?? ? OR COMPUTER? ? OR GUI OR GUIS OR PROCESS?R? ? OR MICROPROCESS? OR MICROCOMPU- T?
S7	84850	PROCESSING(1W)(DEVICE? ? OR UNIT? ? OR APPARATUS? OR APP?? ?)
S8	100496	S4:S7(3N)(OPERATING OR OPERATE? ? OR OPERATION? ?)
S9	170701	S4:S7(3N)(ACTIVAT? OR ACTUAT? OR NAVIGAT? OR CONTROL???? ? OR DIRECTING OR DIRECTD OR DIRECTS OR START??? ? OR MANIPULAT- ?)
S10	43051	S4:S7(3N)(DIRECTED OR DIRECT OR GUIDE? ? OR GUIDING OR POS- ITION??? ?)
S11	108	S4:S7(3N)MANEUV?
S12	1346	S2:S3(25N)S8:S11
S13	21	S12(25N)(THOUGHT? ? OR THINK??? ? OR MUSCLE? ? OR MUSCULAR? OR MENTAL?? ? OR MIND? ?)
S14	3	S12(25N)(MYOELECTR? OR NEUROTROP? OR NEURAL()TROP? OR NEUR- ALTROP? OR ELECTROMYOGRAM? OR ELECTROMYOGRAPH? OR ELECTRO() (M- YOGRAM? OR MYOGRAPH?) OR MYO()ELECTR?)
S15	232229	S4:S7(5N)(DISPLAY? OR VIEW? OR VISUAL? OR VIDEO? ? OR IMAG- E? ? OR WINDOW? ? OR MONITOR? OR ONSCREEN? OR SCREEN? ? OR CRT OR CRTS?)
S16	3779	S4:S7(5N)(LCD OR LCDS OR VDT OR VDTS OR VDU OR VDUS OR VIE- WSCREEN? OR VIEWPORT? ?)
S17	142	S12(25N)S15:S16
S18	22	S17/TI,AB,CM
S19	2711	IC='G09G-005'
S20	3	S12 AND S19
S21	740	S2:S3(10N)S8:S11
S22	64	S21(20N)S15:S16
S23	47	S13:S14 OR S18 OR S20
S24	47	IDPAT (sorted in duplicate/non-duplicate order)
S25	47	IDPAT (primary/non-duplicate records only)

**25/5,K/1 (Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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01626501

**Parallel linkage and artificial joint device using the same**

**Parallelstangenmechanismus und damit versehenes kunstliches Gelenk**

**Mecanisme a bras articules paralleles et articulation artificielle  
utilisant un tel mecanisme**

**PATENT ASSIGNEE:**

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**INVENTOR:**

File 347:JAPIO Oct 1976-2003/Oct(Updated 040202)  
 (c) 2004 JPO & JAPIO  
 File 350:Derwent WPIX 1963-2004/UD,UM &UP=200415  
 (c) 2004 Thomson Derwent  
 File 348:EUROPEAN PATENTS 1978-2004/Feb W04  
 (c) 2004 European Patent Office  
 File 349:PCT FULLTEXT 1979-2002/UB=20040226,UT=20040219  
 (c) 2004 WIPO/Univentio

Set	Items	Description
S1	8	AU='BERANEK M':AU='BERANEK M J'
S2	2	AU='BERANEK MICHAEL J'
S3	1	AU='POPIK R D'
S4	1	S1:S2 AND S3
S5	88506	NAVIGAT?
S6	1	S1:S3 AND S5
S7	1	S4 OR S6

7/9/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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015139091 \*\*Image available\*\*  
 WPI Acc No: 2003-199617/200319  
 XRPX Acc No: N03-158824

**Window environment navigation system for use by handicapped person, has input circuits connected to digital controller for receiving electromyographic signals from embedded electrodes attached to operating person**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: **BERANEK M J ; POPIK R D**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020171680	A1	20021121	US 2001821945	A	20010330	200319 B

Priority Applications (No Type Date): US 2001821945 A 20010330

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020171680	A1		6 G09G-005/00	

Abstract (Basic): US 20020171680 A1

NOVELTY - The system has a processor installed with window environment software having an operating system with GUI. A sequential digital controller connected to the processor, positions a pointer and makes selection within a display window in response to the input circuits. The input circuits are connected to the digital controller, to receive electromyographic signals from the embedded electrodes attached to the operating person.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Window environment **navigation** apparatus; and
- (2) Window environment **navigation** method.

USE - Window environment **navigation** system for use by handicapped individual to control prosthetic device such as artificial limbs and to operate computer mainframe, desktop, tower, laptop, palmtop, computing device, microprocessor, cell phone, etc.

ADVANTAGE - A person can **navigate** a window environment through activation of signals and observing the result on display, while using input device and processor.